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NPIC/TSSG/ESD/TEB-
6 February 1969

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MEMORANDUM FOR THE RECORD

SUBJECT: Trip

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1. A trip was made during 27-30 January

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2. My visit was made to: 1) Examine the processor design so that adequate test procedures for in-house T&E can be planned and test materials forecasted and procured, 2) Review the work accomplished on the re-worked processor with regards to original discrepancies found 3) Plan test procedures for pre-acceptance examination at the contractor's plant.

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3. spent approximately of their own money in the development of the processor. The principal has not been successful, even with other size machines using the same concept. He feels the situation unfortunate, but they are doing the best they can do with our Wide Film Processor without a major redesign which they do not intend.

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4. was reminded that drawings and wiring schematics are required by the contract and are needed to provide guidance in the event of equipment breakdown. It was suggested by the DED monitor that rough shop drawings would be sufficient for this requirement. also stated that he wants a representative of their company to come when the equipment is first installed and operated.

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5. One of the basic reasons for testing the processor at NPIC is to hook up with the laboratory's chemical replenishment system to determine if sensitometric control of processed film is possible to achieve and maintain. This will

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necessarily require processing large quantities of film to establish correct replenishment rates. To make more difficult the task of achieving correct replenishment, it was learned

25X1 [redacted] that externally pre-heated replenishment chemicals will probably be necessary for this machine. This is because of the large replenishment rate required by the spray processing technique and because there is no provision in the processor for conditioning the replenisher. The high temperature processing (110°F normal) will require high temperature replenishment with chemicals near 110°F. In the event processing temperature is lowered or raised, it will be necessary to change the replenisher's temperature. Since the contract calls for processing temperature control of $\pm \frac{1}{2}$°F it is logical to assume that replenishment chemicals will require close temperature control with the chemicals always being below or at the same temperature as required by the processor. There is no cooling system in the processor. Chemicals must cool if necessary by ambient air.

6. I expressed my concern [redacted] 25X1 about the possibility of obtaining reticulated film when processing at temperatures of 110°F. Such high temperature processing is not normal, especially with the conventional films which will be processed and in the absence of a pre-hardner bath in the process. I was assured that they are not experiencing any processed reticulated film results with these conditions.

7. Tests were underway with a conventional type dryer mock

25X1 up [redacted] now plans using a dryer in the processor which uses several rollers for transporting the film and a squeegee assembly for removing excess water. This constitutes a contract discrepancy.

8. Recommended to the contractor [redacted] 25X1 that an expanded scale readout of the units transport speed indicator be used in place of the present meter which has a range far beyond the machines capability. Better control is needed for processor speed. Also recommended that calibrated processing temperature adjustment knobs be installed on the machine to facilitate the adjustment of processing temperatures.

25X1 9. [redacted] a modified NRD-29 developer and a
25X1 special [redacted] fixer are used [redacted] Chemical formulas 25X1
25X1 will be sent [redacted] Also a revised site requirement
25X1 plan will be sent [redacted] plans on making a tem-
25X1 porary installation [redacted] in the PSG/RD photo lab
25X1 when it arrives. Planned completion of the reworked [redacted] 25X1
Processor is about the second week in March 1969.

10. Test procedures were planned and agreed upon which will be used for pre-acceptance testing at the contractor plant. Tests will consist of functional checkouts of major components and quality testing of short lengths of films. The major film 25X1 used however, it is intended also to use film has indicated that he will try to obtain film from the Air Force. Most tests will be accomplished using 9 inch film but at least one roll of 70 mm will be processed to demonstrate capa- 25X1 bility has sufficient test equipment including a printer for making special test target films for conducting the factory test program.

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